



**SAFETY DATA SHEET**  
THE DOW CHEMICAL COMPANY

**Product name:** TERGITOL™ 15-S-7 Surfactant

**Issue Date:** 04/09/2019  
**Print Date:** 04/10/2019

THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

**1. IDENTIFICATION**

**Product name:** TERGITOL™ 15-S-7 Surfactant

**Recommended use of the chemical and restrictions on use**

**Identified uses:** Multi-purpose surfactant. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

**COMPANY IDENTIFICATION**  
THE DOW CHEMICAL COMPANY  
2030 DOW CENTER  
MIDLAND MI 48674-0000  
UNITED STATES

**Customer Information Number:** 800-258-2436  
SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER**  
**24-Hour Emergency Contact:** CHEMTREC +1 800-424-9300  
**Local Emergency Contact:** 800-424-9300

**2. HAZARDS IDENTIFICATION**

**Hazard classification**  
GHS classification in accordance with 29 CFR 1910.1200  
Skin irritation - Category 2  
Serious eye damage - Category 1

**Label elements**  
**Hazard pictograms**



Signal word: **DANGER!**

SAFETY DATA SHEET  
Hazardous Chemical



1. IDENTIFICATION  
Product Name: [Illegible]  
CAS No.: [Illegible]  
EC No.: [Illegible]  
Hazard Statement: [Illegible]  
Precautionary Statement: [Illegible]

2. HAZARD IDENTIFICATION  
GHS09  
Signal Word: [Illegible]  
Hazard Codes: [Illegible]  
Risk Phrases: [Illegible]

3. Composition/Information on Ingredients  
[Illegible]

4. First Aid Measures  
Inhalation: [Illegible]  
Ingestion: [Illegible]  
Skin Contact: [Illegible]  
Eye Contact: [Illegible]

5. Fire Fighting Measures  
Flammability: [Illegible]  
Flash Point: [Illegible]  
Auto-ignition Temp.: [Illegible]  
Decomposition Temp.: [Illegible]

6. Accidental Release Measures  
Spill/Leakage: [Illegible]  
Disposal: [Illegible]

7. Handling and Storage  
Handling: [Illegible]  
Storage: [Illegible]

8. Exposure Controls/Personal Protection  
Exposure Limits: [Illegible]  
Personal Protection: [Illegible]

9. Physical and Chemical Properties  
Appearance: [Illegible]  
Odor: [Illegible]  
Boiling Point: [Illegible]  
Melting Point: [Illegible]  
Density: [Illegible]  
Vapor Pressure: [Illegible]  
Solubility: [Illegible]



10. Transport Information  
UN Number: [Illegible]  
Proper Shipping Name: [Illegible]  
Hazard Class: [Illegible]  
Packing Group: [Illegible]

11. Regulatory Information  
REACH: [Illegible]  
RoHS: [Illegible]  
Other Regulations: [Illegible]

12. Other Information  
[Illegible]

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**Hazards**

Causes skin irritation.  
Causes serious eye damage.

**Precautionary statements**

**Prevention**

Wash skin thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.

**Response**

IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

**Other hazards**

Slipping hazard.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms:** Alcohols, C12-14-secondary, ethoxylated  
This product is a substance.

Component	CASRN	Concentration
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	> 97.0 %
Poly(ethylene oxide)	25322-68-3	<= 3.0 %

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice:**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.



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**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**Most important symptoms and effects, both acute and delayed:**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** Skin contact may aggravate preexisting dermatitis. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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## 5. FIREFIGHTING MEASURES

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**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**Unsuitable extinguishing media:** Do not use direct water stream. May spread fire.

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

**Advice for firefighters**

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

**Special protective equipment for firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions, protective equipment and emergency procedures:** Isolate area. Refer to section 7, Handling, for additional precautionary measures. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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MEMBERSHIP INFORMATION  
The Department of Biology at the University of Chicago is a member of the American Society of Cell Biologists (ASCB). The ASCB is a non-profit organization that promotes the advancement of cell biology through research, education, and the promotion of the field to the public. The ASCB is composed of members from all over the world who are interested in the study of cells and their functions. The ASCB is a member of the International Union of Pure and Applied Chemistry (IUPAC) and the International Union of Biological Sciences (IUBS).

MEMBERSHIP BENEFITS  
Members of the ASCB receive a number of benefits, including access to the journal *Journal of Cell Biology*, access to the ASCB website, and the ability to vote in the election of the ASCB president. Members also receive a discount on the registration fee for the annual meeting of the ASCB. The ASCB also provides a number of other services to its members, including a library of books and journals, a database of cell biology research, and a number of other resources.

MEMBERSHIP RATES  
The ASCB has a number of different membership rates, depending on the type of membership and the length of the term. The rates for 2004 are as follows:

Membership Type	2004 Rate
Individual	\$100
Corporate	\$500
Student	\$50
Life	\$10,000

For more information about the ASCB and its membership, please visit the ASCB website at [www.ascb.org](http://www.ascb.org).

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**Methods and materials for containment and cleaning up:** Contain spilled material if possible. Absorb with materials such as: Sand. Dirt. Collect in suitable and properly labeled containers. Do not use water for cleanup. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Conditions for safe storage:** No specific requirements. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact. The shelf life given is for unopened containers stored under moderate temperature conditions.

**Storage stability**  
**Shelf life:** Use within  
24 Month

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**  
If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Poly(ethylene oxide)	US WEEL	TWA aerosol	10 mg/m3

**Exposure controls**  
**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

**Eye/face protection:** Use chemical goggles.

**Skin protection**

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as





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respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	
Physical state	Liquid.
Color	Yellow
Odor	Mild
Odor Threshold	No test data available
pH	5.5 - 7.5 <i>Calculated.</i> 1% aqueous solution.
Melting point/range	Not applicable
Freezing point	See Pour Point
Boiling point (760 mmHg)	> 250 °C ( > 482 °F) at 760 mmHg <i>Calculated.</i>
Flash point	<b>closed cup</b> 186 °C ( 367 °F) <i>ASTM D 93</i>
Evaporation Rate (Butyl Acetate = 1)	<0.01 <i>Calculated.</i>
Flammability (solid, gas)	Not applicable to liquids
Lower explosion limit	No test data available
Upper explosion limit	No test data available
Vapor Pressure	< 0.01 mmHg at 20 °C (68 °F) <i>Calculated.</i>
Relative Vapor Density (air = 1)	>1 <i>Calculated.</i>
Relative Density (water = 1)	0.991 at 20 °C (68 °F) / 20 °C <i>Calculated.</i>
Water solubility	<i>Visual</i> partly soluble
Partition coefficient: n-octanol/water	log Pow: 3.3 - 4.4 <i>Estimated.</i>
Auto-ignition temperature	No test data available
Decomposition temperature	No test data available
Kinematic Viscosity	51.5 cSt at 25 °C (77 °F) <i>Calculated.</i>
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	508 g/mol <i>Calculated.</i>
Pour point	1 °C ( 34 °F) <i>Calculated.</i>

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available



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**Chemical stability:** Thermally stable at typical use temperatures.

**Possibility of hazardous reactions:** Polymerization will not occur.

**Conditions to avoid:** Exposure to elevated temperatures can cause product to decompose.

**Incompatible materials:** Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

### **Acute toxicity**

#### **Acute oral toxicity**

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Typical for this family of materials.  
LD50, Rat, > 3,000 mg/kg Estimated.

#### **Acute dermal toxicity**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Typical for this family of materials.  
LD50, Rabbit, > 2,000 mg/kg Estimated.

#### **Acute inhalation toxicity**

No adverse effects are anticipated from single exposure to vapor. For respiratory irritation and narcotic effects: No relevant data found.  
The LC50 has not been determined.

### **Skin corrosion/irritation**

Brief contact may cause slight skin irritation with local redness.  
Prolonged contact may cause moderate skin irritation with local redness.  
May cause drying and flaking of the skin.  
Effects may be slow to heal.

### **Serious eye damage/eye irritation**

May cause moderate eye irritation.  
May cause moderate corneal injury.

### **Sensitization**

For skin sensitization:  
No relevant data found.

For respiratory sensitization:  
No relevant data found.

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**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity**

No relevant data found.

**Teratogenicity**

No relevant data found.

**Reproductive toxicity**

No relevant data found.

**Mutagenicity**

In vitro genetic toxicity studies were negative.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**Alcohols, C12-14-secondary, ethoxylated**

**Acute inhalation toxicity**

The LC50 has not been determined.

**Poly(ethylene oxide)**

**Acute inhalation toxicity**

Typical for this family of materials. LC50, Rat, 6 Hour, dust/mist, > 2.5 mg/l No deaths occurred at this concentration.

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## **12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**Toxicity**

**Acute toxicity to fish**

For this family of materials:

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

For this family of materials:

LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 3.5 - 4.9 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

For this family of materials:

EC50, Daphnia magna (Water flea), 48 Hour, 3.1 mg/l, OECD Test Guideline 202 or Equivalent

**Persistence and degradability**



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**Biodegradability:** For this family of materials: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.  
10-day Window: Not applicable  
**Biodegradation:** > 60 %  
**Exposure time:** 28 d  
**Method:** OECD Test Guideline 301F or Equivalent

**Bioaccumulative potential**  
**Partition coefficient: n-octanol/water(log Pow):** 3.3 - 4.4 Estimated.  
**Bioconcentration factor (BCF):** 15 - 64 Fish Estimated.

**Mobility in soil**  
No specific, relevant data available for assessment.

13. DISPOSAL CONSIDERATIONS

**Disposal methods:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. TRANSPORT INFORMATION

DOT	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Alcohol C6-C17 (Secondary) Poly (3-6) Ethoxylate)
UN number	UN 3082
Class	9
Packing group	III
Marine pollutant	Alcohol C6-C17 (Secondary) Poly (3-6) Ethoxylate

**Classification for SEA transport (IMO-IMDG):**  
Not regulated for transport  
**Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code**  
Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**  
Not regulated for transport

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This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**15. REGULATORY INFORMATION**

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Skin corrosion or irritation  
Serious eye damage or eye irritation

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Worker and Community Right-To-Know Act:**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**California Prop. 65**

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

**United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**16. OTHER INFORMATION**

**Product Literature**

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

**Hazard Rating System**

**NFPA**

Health	Flammability	Instability
2	1	0

**Revision**

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Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

TWA	8-hr TWA
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the



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safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.  
US

